

PN - JP56003632 A 19810114  
 TI - SELECTIVE SEPARATION OF NOBLE METAL BY REDUCTION  
 FI - C22B11/04  
 PA - TOYOTA MOTOR CO LTD  
 IN - ISE ATSUSHI/SUZUKI TORAICHI  
 AP - JP19790079816 19790625  
 PR - JP19790079816 19790625  
 DT - I

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AN - 1981-18126D [11]  
 TI - Selective sepn. of noble metals - from soln. by addn. of an organic oxyacid or EDTA, and reducing agent, then boiling  
 AB - J56003632 The pH of the sol. upon addn. of an organic oxyacid or EDTA and a suitable reducing agent is controlled at 2-7. The organic oxyacid and EDTA act as hiding agent for dissolving the coexisting elements in the soln. as metal complex ions. The elements such as Al, Fe or Ni form stable metal complexes which do ppts. out even at pH 2.0-7.0, while the noble metals are reduced and pptd. as the soln. is boiled.  
 - The noble metals are those used as catalyst components for cleaning exhaust gas from motor cars.  
 IW - SELECT SEPARATE NOBLE METAL SOLUTION ADD ORGANIC OXYACID EDTA REDUCE AGENT BOILING  
 AW - ETHYLENE DI AMINE TETRA ACETATE CATALYST CAR EXHAUST GAS PLATINUM PALLADIUM RUTHENIUM  
 PN - JP56003632 A 19810114 DW198111 000pp  
 - JP62000978B B 19870110 DW198705 000pp  
 IC - C22B11/04  
 MC - E05-B03 E05-L02 E10-B01C H06-C03 M25-E M25-G20 N02-E N02-F  
 DC - E16 H06 M25  
 PA - (TOYT) TOYOTA JIDOSHA KK  
 AP - JP19790079816 19790625  
 PR - JP19790079816 19790625  
 OPD - 1979-06-25  
 ORD - 1981-01-14

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PN - JP56003632 A 19810114  
 TI - SELECTIVE SEPARATION OF NOBLE METAL BY REDUCTION  
 AB - PURPOSE: To recover noble metals such as Pt, Pd and Rh from a soln. contg. the metals coexisting with other metals by adding an org. oxy acid or the like and a reducing agent to the soln., to dissolve the coexisting metals as metal complex ions, making the soln. more acidic, and boiling the acidic soln. to selectively reduce and separate the noble metals.  
 - CONSTITUTION: An org. oxy acid such as tartaric acid or citric acid or EDTA as a masking reagent is added to a strongly acidic soln. contg. noble metals such as Pt, Pd and Rh coexisting with metals such as Al, Fe, Mg and Ni to convert the metals other than the noble metals into complex ions and prevent their precipitation. After adding formic acid or ammonium formate as a reducing agent, the soln. is adjusted to pH about 2-7 with an aqueous ammonia soln. or caustic alkali and boiled, whereby the dissolved noble metals are reduced and precipitated. The precipitate is then separated by filtration and recovered.  
 I - C22B11/04  
 PA - TOYOTA MOTOR CORP  
 IN - ISE ATSUSHI; others: 01  
 ABD - 19810408  
 ABV - 005049  
 GR - C049  
 AP - JP19790079816 19790625